## Release notes for ENDF/B Development n-094\_Pu\_241 evaluation



April 26, 2017

- checkr Warnings:
  - 1. A previous error halted parsing of the current section  $MAT=9443,\ MF=1,\ MT=451\ (1)$ : Parsing stopped

ERROR(S) FOUND IN MAT=9443, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 446 TO 518

- checkr Errors:
  - 1. A variable is outside the allowed ENDF range MAT=9443, MF=1, MT=451 (0): Variable range

ERROR(S) FOUND IN MAT=9443, MF= 1, MT=451
MOD = 1 OUT OF RANGE 0 - 0 RECORD NUMBER 446

2. Missing a section in directory so your directory is messed up. This error will break everything else  $MAT=9443,\ MF=1,\ MT=452\ (0)$ : Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 1, MT=452
SECTION 1/452 NOT IN DIRECTORY RECORD NUMBER 519

3. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=1, MT=455 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 1, MT=455
SECTION 1/455 NOT IN DIRECTORY RECORD NUMBER 525

4. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=1, MT=456 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 1, MT=456
SECTION 1/456 NOT IN DIRECTORY RECORD NUMBER 533

5. Missing a section in directory so your directory is messed up. This error will break everything else  $MAT=9443,\ MF=1,\ MT=458\ (0)$ : Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 1, MT=458

SECTION 1/458 NOT IN DIRECTORY RECORD NUMBER 539

6. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=2, MT=151 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY RECORD NUMBER 546

7. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=3, MT=1 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 3, MT= 1 SECTION 3/ 1 NOT IN DIRECTORY

RECORD NUMBER

8. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 3, MT = 2 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 3, MT= 2 SECTION 3/ 2 NOT IN DIRECTORY

RECORD NUMBER 997

9. Missing a section in directory so your directory is messed up. This error will break everything else

MAT-0//3 MF-3 MT-1 (0): Directory (b)

MAT = 9443, MF = 3, MT = 4 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 3, MT= 4 SECTION 3/ 4 NOT IN DIRECTORY

RECORD NUMBER 1037

10. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 3, MT = 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 3, MT= 16 SECTION 3/ 16 NOT IN DIRECTORY

RECORD NUMBER 1075

11. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 3, MT = 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 3, MT= 17 SECTION 3/ 17 NOT IN DIRECTORY

RECORD NUMBER 1093

12. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 3, MT = 18 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 3, MT= 18 SECTION 3/ 18 NOT IN DIRECTORY

RECORD NUMBER 1102

13. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 3, MT = 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 3, MT= 51 SECTION 3/51 NOT IN DIRECTORY

RECORD NUMBER 1142

14. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=3, MT=52 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 3, MT= 52 SECTION 3/ 52 NOT IN DIRECTORY

RECORD NUMBER 1164

15. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 3, MT = 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 3, MT= 53 SECTION 3/ 53 NOT IN DIRECTORY

RECORD NUMBER 1183

16. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 3, MT = 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 3, MT= 54 SECTION 3/ 54 NOT IN DIRECTORY

RECORD NUMBER 1201

17. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 3, MT = 55 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 3, MT= 55 SECTION 3/ 55 NOT IN DIRECTORY

RECORD NUMBER 1218

18. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 3, MT = 56 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 3, MT= 56 SECTION 3/ 56 NOT IN DIRECTORY

RECORD NUMBER 1235

19. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 3, MT = 57 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 3, MT= 57 SECTION 3/ 57 NOT IN DIRECTORY

RECORD NUMBER 1251

20. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 3, MT = 58 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 3, MT= 58 SECTION 3/ 58 NOT IN DIRECTORY

RECORD NUMBER 1267

21. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 3, MT = 59 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 3, MT= 59 SECTION 3/ 59 NOT IN DIRECTORY

RECORD NUMBER 1282

22. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=3, MT=60 (0): Directory (b)

11111 0440, 1111 0, 1111 00 (0). Directory

ERROR(S) FOUND IN MAT=9443, MF= 3, MT= 60 SECTION 3/ 60 NOT IN DIRECTORY

RECORD NUMBER 1297

23. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 3, MT = 61 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 3, MT= 61 SECTION 3/61 NOT IN DIRECTORY

RECORD NUMBER

24. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 3, MT = 62 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 3, MT= 62 SECTION 3/62 NOT IN DIRECTORY

RECORD NUMBER 1324

25. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 3, MT = 63 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 3, MT= 63 SECTION 3/63 NOT IN DIRECTORY

RECORD NUMBER 1336

26. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 3, MT = 64 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 3, MT= 64 SECTION 3/64 NOT IN DIRECTORY

RECORD NUMBER 1348

27. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 3, MT = 65 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 3, MT= 65 SECTION 3/65 NOT IN DIRECTORY

RECORD NUMBER 1359

28. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 9443, MF = 3, MT = 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 3, MT= 91

SECTION 3/ 91 NOT IN DIRECTORY

RECORD NUMBER 1370

29. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 3, MT = 102 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 3, MT=102 SECTION 3/102 NOT IN DIRECTORY

RECORD NUMBER 1397

30. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 9443, MF = 4, MT = 2 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 4, MT= 2

SECTION 4/ 2 NOT IN DIRECTORY

RECORD NUMBER 1438

31. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 4, MT = 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 4, MT= 16 SECTION 4/ 16 NOT IN DIRECTORY

RECORD NUMBER 1572

32. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 4, MT = 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 4, MT= 17 SECTION 4/ 17 NOT IN DIRECTORY

RECORD NUMBER 1583

33. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=4, MT=18 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 4, MT= 18

SECTION 4/ 18 NOT IN DIRECTORY

RECORD NUMBER 1594

34. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 4, MT = 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 4, MT= 51 SECTION 4/ 51 NOT IN DIRECTORY

RECORD NUMBER 1605

35. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=4, MT=52 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 4, MT= 52 SECTION 4/ 52 NOT IN DIRECTORY

RECORD NUMBER 1616

36. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=9443, MF= 4, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 4, MT= 53 SECTION 4/ 53 NOT IN DIRECTORY

RECORD NUMBER 1627

37. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=4, MT=54 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 4, MT= 54 SECTION 4/ 54 NOT IN DIRECTORY

RECORD NUMBER 1638

38. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=4, MT=55 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 4, MT= 55 SECTION 4/ 55 NOT IN DIRECTORY

RECORD NUMBER 1649

39. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=4, MT=56 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 4, MT= 56 SECTION 4/ 56 NOT IN DIRECTORY

RECORD NUMBER 1660

40. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 4, MT = 57 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 4, MT= 57 SECTION 4/ 57 NOT IN DIRECTORY

RECORD NUMBER 1671

41. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 4, MT = 58 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 4, MT= 58 SECTION 4/ 58 NOT IN DIRECTORY

RECORD NUMBER 1682

42. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 4, MT = 59 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 4, MT= 59 SECTION 4/ 59 NOT IN DIRECTORY

RECORD NUMBER 1693

43. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 4, MT = 60 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 4, MT= 60 SECTION 4/ 60 NOT IN DIRECTORY

RECORD NUMBER 1704

44. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 4, MT = 61 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 4, MT= 61 SECTION 4/ 61 NOT IN DIRECTORY

RECORD NUMBER 1715

45. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 4, MT = 62 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 4, MT= 62 SECTION 4/ 62 NOT IN DIRECTORY

RECORD NUMBER 1726

46. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 4, MT = 63 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 4, MT= 63 SECTION 4/ 63 NOT IN DIRECTORY

RECORD NUMBER 1737

47. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 4, MT = 64 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 4, MT= 64 SECTION 4/ 64 NOT IN DIRECTORY

RECORD NUMBER 1748

48. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 4, MT = 65 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 4, MT= 65 SECTION 4/ 65 NOT IN DIRECTORY

RECORD NUMBER 1759

49. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 4, MT = 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 4, MT= 91 SECTION 4/ 91 NOT IN DIRECTORY

RECORD NUMBER 1770

50. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 5, MT = 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 5, MT= 16 SECTION 5/ 16 NOT IN DIRECTORY

RECORD NUMBER 1782

51. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 5, MT = 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 5, MT= 17 SECTION 5/ 17 NOT IN DIRECTORY

RECORD NUMBER 2000

52. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 5, MT = 18 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 5, MT= 18 SECTION 5/ 18 NOT IN DIRECTORY

RECORD NUMBER 2112

53. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 5, MT = 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 5, MT= 91 SECTION 5/ 91 NOT IN DIRECTORY

RECORD NUMBER 2121

54. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=5, MT=455 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 5, MT=455 SECTION 5/455 NOT IN DIRECTORY

RECORD NUMBER 2315

55. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=8, MT=16 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 8, MT= 16 SECTION 8/ 16 NOT IN DIRECTORY

RECORD NUMBER 2896

56. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 9443, MF = 8, MT = 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 8, MT= 17 SECTION 8/ 17 NOT IN DIRECTORY

RECORD NUMBER 2899

57. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=8, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF= 8, MT=102 SECTION 8/102 NOT IN DIRECTORY

RECORD NUMBER 2902

58. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=12, MT= 18 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF=12, MT= 18 SECTION 12/ 18 NOT IN DIRECTORY

RECORD NUMBER 2906

59. Missing a gamma spectrum for continuum of gammas MAT=9443, MF=12, MT=18 (1): No gamma spectrum

ERROR(S) FOUND IN MAT=9443, MF=12, MT= 18
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

60. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=12, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF=12, MT=102 SECTION 12/102 NOT IN DIRECTORY

RECORD NUMBER 2912

61. Missing a gamma spectrum for continuum of gammas MAT=9443, MF=12, MT=102 (1): No gamma spectrum

ERROR(S) FOUND IN MAT=9443, MF=12, MT=102 CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

62. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=13, MT=3 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF=13, MT= 3 SECTION 13/ 3 NOT IN DIRECTORY

RECORD NUMBER 2919

63. Missing a gamma spectrum for continuum of gammas MAT=9443, MF=13, MT=3 (1): No gamma spectrum

ERROR(S) FOUND IN MAT=9443, MF=13, MT= 3
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

64. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=14, MT=3 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF=14, MT= 3
SECTION 14/ 3 NOT IN DIRECTORY R

RECORD NUMBER 2930

65. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=14, MT= 18 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF=14, MT= 18 SECTION 14/ 18 NOT IN DIRECTORY

RECORD NUMBER 2932

66. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=14, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF=14, MT=102 SECTION 14/102 NOT IN DIRECTORY

RECORD NUMBER 2934

67. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=15, MT=3 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF=15, MT= 3 SECTION 15/ 3 NOT IN DIRECTORY

RECORD NUMBER 2937

68. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=15, MT=18 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF=15, MT= 18 SECTION 15/ 18 NOT IN DIRECTORY

RECORD NUMBER 3351

69. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=15, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF=15, MT=102 SECTION 15/102 NOT IN DIRECTORY

RECORD NUMBER 3397

70. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=31, MT=456 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF=31, MT=456 SECTION 31/456 NOT IN DIRECTORY

RECORD NUMBER 3447

71. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=33, MT=2 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF=33, MT= 2 SECTION 33/ 2 NOT IN DIRECTORY

RECORD NUMBER 3552

72. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=33, MT=4 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF=33, MT= 4 SECTION 33/ 4 NOT IN DIRECTORY

RECORD NUMBER 3656

73. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=33, MT=16 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF=33, MT= 16 SECTION 33/ 16 NOT IN DIRECTORY

RECORD NUMBER 3676

74. Missing a section in directory so your directory is messed up. This error will break everything else MAT=9443, MF=33, MT=18 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF=33, MT= 18 SECTION 33/ 18 NOT IN DIRECTORY

RECORD NUMBER 3682

75. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=9443, MF=33, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=9443, MF=33, MT=102 SECTION 33/102 NOT IN DIRECTORY

RECORD NUMBER 4161

- psyche Warnings:
  - 1. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 3.000000E+02. STRENGTH FUNCTION IS 1.13970E-04 / ENERGY = 3.000000E+02. STRENGTH FUNCTION IS 1.13970E-04 / DENSITY 1.99000E+00 SHOULD BE 1.65000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 3.00000E+02. STRENGTH FUNCTION IS 1.13970E-04 ENERGY = 3.00000E+02. STRENGTH FUNCTION IS 1.13970E-04 DENSITY 1.99000E+00 SHOULD BE 1.65000E+00

2. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 3.50000E+02. STRENGTH FUNCTION IS 1.13658E-04 / DENSITY 1.99000E+00 SHOULD BE 1.65000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 3.50000E+02. STRENGTH FUNCTION IS 1.13658E-04 DENSITY 1.99000E+00 SHOULD BE 1.65000E+00

3. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 4.50000E+02. STRENGTH FUNCTION IS 1.12719E-04 / DENSITY 1.99000E+00 SHOULD BE 1.65000E+00 (0): URR dens. (a)

SECTION 151

ENERGY = 4.50000E+02. STRENGTH FUNCTION IS 1.12719E-04 DENSITY 1.99000E+00 SHOULD BE 1.65000E+00

4. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 5.50000E+02. STRENGTH FUNCTION IS 1.03156E-04 / DENSITY 1.99000E+00 SHOULD BE 1.65000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 5.50000E+02. STRENGTH FUNCTION IS 1.03156E-04

DENSITY 1.99000E+00 SHOULD BE 1.65000E+00

5. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 6.00000E+02. STRENGTH FUNCTION IS 9.08141E-05 / DENSITY 1.99000E+00 SHOULD BE 1.65000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 6.00000E+02. STRENGTH FUNCTION IS 9.08141E-05 DENSITY 1.99000E+00 SHOULD BE 1.65000E+00

6. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 6.50000E+02. STRENGTH FUNCTION IS 7.71005E-05 / DENSITY 1.99000E+00 SHOULD BE 1.65000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 6.50000E+02. STRENGTH FUNCTION IS 7.71005E-05 DENSITY 1.99000E+00 SHOULD BE 1.65000E+00

7. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.00000E+02. STRENGTH FUNCTION IS 7.55879E-05 / DENSITY 1.99000E+00 SHOULD BE 1.65000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 7.00000E+02. STRENGTH FUNCTION IS 7.55879E-05 DENSITY 1.99000E+00 SHOULD BE 1.65000E+00

8. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.50000E+02. STRENGTH FUNCTION IS 7.55779E-05 / DENSITY 1.99000E+00 SHOULD BE 1.65000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 7.50000E+02. STRENGTH FUNCTION IS 7.55779E-05 DENSITY 1.99000E+00 SHOULD BE 1.65000E+00

9. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 8.00000E+02. STRENGTH FUNCTION IS 7.75578E-05 / DENSITY 1.99000E+00 SHOULD BE 1.65000E+00 (0): URR dens. (a)

SECTION 151

ENERGY = 8.00000E+02. STRENGTH FUNCTION IS 7.75578E-05 DENSITY 1.99000E+00 SHOULD BE 1.65000E+00

10. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 8.50000E+02. STRENGTH FUNCTION IS 7.95829E-05 / DENSITY 1.99000E+00 SHOULD BE 1.65000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 8.50000E+02. STRENGTH FUNCTION IS 7.95829E-05 DENSITY 1.99000E+00 SHOULD BE 1.65000E+00

11. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.00000E+02. STRENGTH FUNCTION IS 8.28945E-05 / DENSITY 1.99000E+00 SHOULD BE 1.65000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 9.00000E+02. STRENGTH FUNCTION IS 8.28945E-05 DENSITY 1.99000E+00 SHOULD BE 1.65000E+00

12. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.50000E+02. STRENGTH FUNCTION IS 8.64422E-05 / DENSITY 1.99000E+00 SHOULD BE 1.65000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 9.50000E+02. STRENGTH FUNCTION IS 8.64422E-05 DENSITY 1.99000E+00 SHOULD BE 1.65000E+00

13. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 9.05829E-05 / DENSITY 1.99000E+00 SHOULD BE 1.65000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 9.05829E-05 DENSITY 1.99000E+00 SHOULD BE 1.65000E+00

14. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.50000E+03. STRENGTH FUNCTION IS 9.88643E-05 / DENSITY 1.99000E+00 SHOULD BE 1.65000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.50000E+03. STRENGTH FUNCTION IS 9.88643E-05 DENSITY 1.99000E+00 SHOULD BE 1.65000E+00

15. Level density in URR not in agreement with PSYCHE's expectations  $FILE\ 2\ /\ SECTION\ 151\ /\ ENERGY = 2.00000E+03.$   $STRENGTH\ FUNCTION\ IS\ 9.87839E-05\ /\ DENSITY\ 1.99000E+00\ SHOULD\ BE\ 1.65000E+00\ (0)$ : URR dens. (a)

SECTION 151

ENERGY = 2.00000E+03. STRENGTH FUNCTION IS 9.87839E-05 DENSITY 1.99000E+00 SHOULD BE 1.65000E+00

16. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.50000E+03. STRENGTH FUNCTION IS 9.75628E-05 / DENSITY 1.99000E+00 SHOULD BE 1.65000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 2.50000E+03. STRENGTH FUNCTION IS 9.75628E-05 DENSITY 1.99000E+00 SHOULD BE 1.65000E+00

17. Level density in URR not in agreement with PSYCHE's expectations  $FILE\ 2\ /\ SECTION\ 151\ /\ ENERGY = 3.50000E+03.$  STRENGTH FUNCTION IS  $9.89397E-05\ /\ DENSITY\ 1.99000E+00\ SHOULD\ BE\ 1.65000E+00\ (0)$ : URR dens. (a)

FILE 2

SECTION 151

ENERGY = 3.50000E+03. STRENGTH FUNCTION IS 9.89397E-05 DENSITY 1.99000E+00 SHOULD BE 1.65000E+00

18. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 5.50000E+03. STRENGTH FUNCTION IS 9.83116E-05 / DENSITY 1.99000E+00 SHOULD BE 1.65000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 5.50000E+03. STRENGTH FUNCTION IS 9.83116E-05 DENSITY 1.99000E+00 SHOULD BE 1.65000E+00

19. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 9.40402E-05 / DENSITY 1.99000E+00 SHOULD BE 1.65000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 9.40402E-05 DENSITY 1.99000E+00 SHOULD BE 1.65000E+00

20. Level density in URR not in agreement with PSYCHE's expectations  $FILE\ 2\ /\ SECTION\ 151\ /\ ENERGY = 9.50000E+03.$  STRENGTH FUNCTION IS  $9.34020E-05\ /\ DENSITY\ 1.99000E+00\ SHOULD\ BE\ 1.65000E+00\ (0)$ : URR dens. (a)

FILE 2

SECTION 151

ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 9.34020E-05 DENSITY 1.99000E+00 SHOULD BE 1.65000E+00

21. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / TOTAL OF 24 POINTS IN ERROR FOR THIS J-STATE (0): URR dens. (b)

SECTION 151

TOTAL OF 24 POINTS IN ERROR FOR THIS J-STATE TOTAL OF 24 POINTS IN ERROR FOR THIS J-STATE TOTAL OF 24 POINTS IN ERROR FOR THIS J-STATE

... [1 more lines]

22. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 3.00000E+02. STRENGTH FUNCTION IS 2.53346E-04 / ENERGY = 3.00000E+02. STRENGTH FUNCTION IS 2.53346E-04 / DENSITY 2.31000E+00 SHOULD BE 2.03400E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 3.00000E+02. STRENGTH FUNCTION IS 2.53346E-04 ENERGY = 3.00000E+02. STRENGTH FUNCTION IS 2.53346E-04 DENSITY 2.31000E+00 SHOULD BE 2.03400E+00

23. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 3.50000E+02. STRENGTH FUNCTION IS 2.52645E-04 / DENSITY 2.31000E+00 SHOULD BE 2.03400E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 3.50000E+02. STRENGTH FUNCTION IS 2.52645E-04 DENSITY 2.31000E+00 SHOULD BE 2.03400E+00

24. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 4.50000E+02. STRENGTH FUNCTION IS 2.50558E-04 / DENSITY 2.31000E+00 SHOULD BE 2.03400E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 4.50000E+02. STRENGTH FUNCTION IS 2.50558E-04

DENSITY 2.31000E+00 SHOULD BE 2.03400E+00

25. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 5.50000E+02. STRENGTH FUNCTION IS 2.29303E-04 / DENSITY 2.31000E+00 SHOULD BE 2.03400E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 5.50000E+02. STRENGTH FUNCTION IS 2.29303E-04

DENSITY 2.31000E+00 SHOULD BE 2.03400E+00

26. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 6.00000E+02. STRENGTH FUNCTION IS 2.01874E-04 / DENSITY 2.31000E+00 SHOULD BE 2.03400E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 6.00000E+02. STRENGTH FUNCTION IS 2.01874E-04

DENSITY 2.31000E+00 SHOULD BE 2.03400E+00

27. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 6.50000E+02. STRENGTH FUNCTION IS 1.71394E-04 / DENSITY 2.31000E+00 SHOULD BE 2.03400E+00 (0): URR dens. (a)

SECTION 151

ENERGY = 6.50000E+02. STRENGTH FUNCTION IS 1.71394E-04 DENSITY 2.31000E+00 SHOULD BE 2.03400E+00

28. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.00000E+02. STRENGTH FUNCTION IS 1.68026E-04 / DENSITY 2.31000E+00 SHOULD BE 2.03400E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 7.00000E+02. STRENGTH FUNCTION IS 1.68026E-04

DENSITY 2.31000E+00 SHOULD BE 2.03400E+00

29. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.50000E+02. STRENGTH FUNCTION IS 1.68004E-04 / DENSITY 2.31000E+00 SHOULD BE 2.03400E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 7.50000E+02. STRENGTH FUNCTION IS 1.68004E-04

DENSITY 2.31000E+00 SHOULD BE 2.03400E+00

30. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 8.00000E+02. STRENGTH FUNCTION IS 1.72407E-04 / DENSITY 2.31000E+00 SHOULD BE 2.03400E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 8.00000E+02. STRENGTH FUNCTION IS 1.72407E-04

DENSITY 2.31000E+00 SHOULD BE 2.03400E+00

31. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 8.50000E+02. STRENGTH FUNCTION IS 1.76909E-04 / DENSITY 2.31000E+00 SHOULD BE 2.03400E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 8.50000E+02. STRENGTH FUNCTION IS 1.76909E-04

DENSITY 2.31000E+00 SHOULD BE 2.03400E+00

32. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.00000E+02. STRENGTH FUNCTION IS 1.84273E-04 / DENSITY 2.31000E+00 SHOULD BE 2.03400E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 9.00000E+02. STRENGTH FUNCTION IS 1.84273E-04

DENSITY 2.31000E+00 SHOULD BE 2.03400E+00

33. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.50000E+02. STRENGTH FUNCTION IS 1.92156E-04 / DENSITY 2.31000E+00 SHOULD BE 2.03400E+00 (0): URR dens. (a)

SECTION 151

ENERGY = 9.50000E+02. STRENGTH FUNCTION IS 1.92156E-04 DENSITY 2.31000E+00 SHOULD BE 2.03400E+00

34. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 2.01364E-04 / DENSITY 2.31000E+00 SHOULD BE 2.03400E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 2.01364E-04

DENSITY 2.31000E+00 SHOULD BE 2.03400E+00

35. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.50000E+03. STRENGTH FUNCTION IS 2.19771E-04 / DENSITY 2.31000E+00 SHOULD BE 2.03400E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.50000E+03. STRENGTH FUNCTION IS 2.19771E-04

DENSITY 2.31000E+00 SHOULD BE 2.03400E+00

36. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+03. STRENGTH FUNCTION IS 2.19580E-04 / DENSITY 2.31000E+00 SHOULD BE 2.03400E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 2.00000E+03. STRENGTH FUNCTION IS 2.19580E-04

DENSITY 2.31000E+00 SHOULD BE 2.03400E+00

37. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.50000E+03. STRENGTH FUNCTION IS 2.16874E-04 / DENSITY 2.31000E+00 SHOULD BE 2.03400E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 2.50000E+03. STRENGTH FUNCTION IS 2.16874E-04

DENSITY 2.31000E+00 SHOULD BE 2.03400E+00

38. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 3.50000E+03. STRENGTH FUNCTION IS 2.19939E-04 / DENSITY 2.31000E+00 SHOULD BE 2.03400E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 3.50000E+03. STRENGTH FUNCTION IS 2.19939E-04

DENSITY 2.31000E+00 SHOULD BE 2.03400E+00

39. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 5.50000E+03. STRENGTH FUNCTION IS 2.18532E-04 / DENSITY 2.31000E+00 SHOULD BE 2.03400E+00 (0): URR dens. (a)

SECTION 151

ENERGY = 5.50000E+03. STRENGTH FUNCTION IS 2.18532E-04 DENSITY 2.31000E+00 SHOULD BE 2.03400E+00

40. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 2.09039E-04 / DENSITY 2.31000E+00 SHOULD BE 2.03400E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 2.09039E-04

DENSITY 2.31000E+00 SHOULD BE 2.03400E+00

41. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 2.07623E-04 / DENSITY 2.31000E+00 SHOULD BE 2.03400E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 2.07623E-04

DENSITY 2.31000E+00 SHOULD BE 2.03400E+00

42. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 3.00000E+02. STRENGTH FUNCTION IS 2.53382E-04 / ENERGY = 3.00000E+02. STRENGTH FUNCTION IS 2.53382E-04 / DENSITY 1.99000E+00 SHOULD BE 1.45286E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 3.00000E+02. STRENGTH FUNCTION IS 2.53382E-04 ENERGY = 3.00000E+02. STRENGTH FUNCTION IS 2.53382E-04 DENSITY 1.99000E+00 SHOULD BE 1.45286E+00

43. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 3.50000E+02. STRENGTH FUNCTION IS 2.52683E-04 / DENSITY 1.99000E+00 SHOULD BE 1.45286E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 3.50000E+02. STRENGTH FUNCTION IS 2.52683E-04

DENSITY 1.99000E+00 SHOULD BE 1.45286E+00

44. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 4.50000E+02. STRENGTH FUNCTION IS 2.50593E-04 / DENSITY 1.99000E+00 SHOULD BE 1.45286E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 4.50000E+02. STRENGTH FUNCTION IS 2.50593E-04

DENSITY 1.99000E+00 SHOULD BE 1.45286E+00

45. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 5.50000E+02. STRENGTH FUNCTION IS 2.29332E-04 / DENSITY 1.99000E+00 SHOULD BE 1.45286E+00 (0): URR dens. (a)

SECTION 151

ENERGY = 5.50000E+02. STRENGTH FUNCTION IS 2.29332E-04 DENSITY 1.99000E+00 SHOULD BE 1.45286E+00

46. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 6.00000E+02. STRENGTH FUNCTION IS 2.01905E-04 / DENSITY 1.99000E+00 SHOULD BE 1.45286E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 6.00000E+02. STRENGTH FUNCTION IS 2.01905E-04

DENSITY 1.99000E+00 SHOULD BE 1.45286E+00

47. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 6.50000E+02. STRENGTH FUNCTION IS 1.71417E-04 / DENSITY 1.99000E+00 SHOULD BE 1.45286E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 6.50000E+02. STRENGTH FUNCTION IS 1.71417E-04

DENSITY 1.99000E+00 SHOULD BE 1.45286E+00

48. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.00000E+02. STRENGTH FUNCTION IS 1.68050E-04 / DENSITY 1.99000E+00 SHOULD BE 1.45286E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 7.00000E+02. STRENGTH FUNCTION IS 1.68050E-04

DENSITY 1.99000E+00 SHOULD BE 1.45286E+00

49. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.50000E+02. STRENGTH FUNCTION IS 1.68025E-04 / DENSITY 1.99000E+00 SHOULD BE 1.45286E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 7.50000E+02. STRENGTH FUNCTION IS 1.68025E-04

DENSITY 1.99000E+00 SHOULD BE 1.45286E+00

50. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 8.00000E+02. STRENGTH FUNCTION IS 1.72432E-04 / DENSITY 1.99000E+00 SHOULD BE 1.45286E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 8.00000E+02. STRENGTH FUNCTION IS 1.72432E-04

DENSITY 1.99000E+00 SHOULD BE 1.45286E+00

51. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 8.50000E+02. STRENGTH FUNCTION IS 1.76935E-04 / DENSITY 1.99000E+00 SHOULD BE 1.45286E+00 (0): URR dens. (a)

SECTION 151

ENERGY = 8.50000E+02. STRENGTH FUNCTION IS 1.76935E-04

DENSITY 1.99000E+00 SHOULD BE 1.45286E+00

52. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.00000E+02. STRENGTH FUNCTION IS 1.84296E-04 / DENSITY 1.99000E+00 SHOULD BE 1.45286E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 9.00000E+02. STRENGTH FUNCTION IS 1.84296E-04

DENSITY 1.99000E+00 SHOULD BE 1.45286E+00

53. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.50000E+02. STRENGTH FUNCTION IS 1.92186E-04 / DENSITY 1.99000E+00 SHOULD BE 1.45286E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 9.50000E+02. STRENGTH FUNCTION IS 1.92186E-04 DENSITY 1.99000E+00 SHOULD BE 1.45286E+00

54. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 2.01392E-04 / DENSITY 1.99000E+00 SHOULD BE 1.45286E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 2.01392E-04 DENSITY 1.99000E+00 SHOULD BE 1.45286E+00

55. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.50000E+03. STRENGTH FUNCTION IS 2.19804E-04 / DENSITY 1.99000E+00 SHOULD BE 1.45286E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.50000E+03. STRENGTH FUNCTION IS 2.19804E-04

DENSITY 1.99000E+00 SHOULD BE 1.45286E+00

56. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+03. STRENGTH FUNCTION IS 2.19613E-04 / DENSITY 1.99000E+00 SHOULD BE 1.45286E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 2.00000E+03. STRENGTH FUNCTION IS 2.19613E-04

DENSITY 1.99000E+00 SHOULD BE 1.45286E+00

57. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.50000E+03. STRENGTH FUNCTION IS 2.16905E-04 / DENSITY 1.99000E+00 SHOULD BE 1.45286E+00 (0): URR dens. (a)

SECTION 151

ENERGY = 2.50000E+03. STRENGTH FUNCTION IS 2.16905E-04 DENSITY 1.99000E+00 SHOULD BE 1.45286E+00

58. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 3.50000E+03. STRENGTH FUNCTION IS 2.19970E-04 / DENSITY 1.99000E+00 SHOULD BE 1.45286E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 3.50000E+03. STRENGTH FUNCTION IS 2.19970E-04

DENSITY 1.99000E+00 SHOULD BE 1.45286E+00

59. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 5.50000E+03. STRENGTH FUNCTION IS 2.18563E-04 / DENSITY 1.99000E+00 SHOULD BE 1.45286E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 5.50000E+03. STRENGTH FUNCTION IS 2.18563E-04

DENSITY 1.99000E+00 SHOULD BE 1.45286E+00

60. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 2.09070E-04 / DENSITY 1.99000E+00 SHOULD BE 1.45286E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 2.09070E-04

DENSITY 1.99000E+00 SHOULD BE 1.45286E+00

61. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 2.07653E-04 / DENSITY 1.99000E+00 SHOULD BE 1.45286E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 2.07653E-04 DENSITY 1.99000E+00 SHOULD BE 1.45286E+00

62. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 3.00000E+02. STRENGTH FUNCTION IS 2.53382E-04 / ENERGY = 3.00000E+02. STRENGTH FUNCTION IS 2.53382E-04 / DENSITY 1.99000E+00 SHOULD BE 1.13000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 3.00000E+02. STRENGTH FUNCTION IS 2.53382E-04 ENERGY = 3.00000E+02. STRENGTH FUNCTION IS 2.53382E-04 DENSITY 1.99000E+00 SHOULD BE 1.13000E+00

63. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 3.50000E+02. STRENGTH FUNCTION IS 2.52683E-04 / DENSITY 1.99000E+00 SHOULD BE 1.13000E+00 (0): URR dens. (a)

SECTION 151

ENERGY = 3.50000E+02. STRENGTH FUNCTION IS 2.52683E-04 DENSITY 1.99000E+00 SHOULD BE 1.13000E+00

64. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 4.50000E+02. STRENGTH FUNCTION IS 2.50593E-04 / DENSITY 1.99000E+00 SHOULD BE 1.13000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 4.50000E+02. STRENGTH FUNCTION IS 2.50593E-04

DENSITY 1.99000E+00 SHOULD BE 1.13000E+00

65. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 5.50000E+02. STRENGTH FUNCTION IS 2.29332E-04 / DENSITY 1.99000E+00 SHOULD BE 1.13000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 5.50000E+02. STRENGTH FUNCTION IS 2.29332E-04

DENSITY 1.99000E+00 SHOULD BE 1.13000E+00

66. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 6.00000E+02. STRENGTH FUNCTION IS 2.01905E-04 / DENSITY 1.99000E+00 SHOULD BE 1.13000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 6.00000E+02. STRENGTH FUNCTION IS 2.01905E-04 DENSITY 1.99000E+00 SHOULD BE 1.13000E+00

67. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 6.50000E+02. STRENGTH FUNCTION IS 1.71417E-04 / DENSITY 1.99000E+00 SHOULD BE 1.13000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 6.50000E+02. STRENGTH FUNCTION IS 1.71417E-04

DENSITY 1.99000E+00 SHOULD BE 1.13000E+00

68. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.00000E+02. STRENGTH FUNCTION IS 1.68050E-04 / DENSITY 1.99000E+00 SHOULD BE 1.13000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 7.00000E+02. STRENGTH FUNCTION IS 1.68050E-04

DENSITY 1.99000E+00 SHOULD BE 1.13000E+00

69. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.50000E+02. STRENGTH FUNCTION IS 1.68025E-04 / DENSITY 1.99000E+00 SHOULD BE 1.13000E+00 (0): URR dens. (a)

SECTION 151

ENERGY = 7.50000E+02. STRENGTH FUNCTION IS 1.68025E-04 DENSITY 1.99000E+00 SHOULD BE 1.13000E+00

70. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 8.00000E+02. STRENGTH FUNCTION IS 1.72432E-04 / DENSITY 1.99000E+00 SHOULD BE 1.13000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 8.00000E+02. STRENGTH FUNCTION IS 1.72432E-04 DENSITY 1.99000E+00 SHOULD BE 1.13000E+00

71. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 8.50000E+02. STRENGTH FUNCTION IS 1.76935E-04 / DENSITY 1.99000E+00 SHOULD BE 1.13000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 8.50000E+02. STRENGTH FUNCTION IS 1.76935E-04

DENSITY 1.99000E+00 SHOULD BE 1.13000E+00

72. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.00000E+02. STRENGTH FUNCTION IS 1.84296E-04 / DENSITY 1.99000E+00 SHOULD BE 1.13000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 9.00000E+02. STRENGTH FUNCTION IS 1.84296E-04

DENSITY 1.99000E+00 SHOULD BE 1.13000E+00

73. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.50000E+02. STRENGTH FUNCTION IS 1.92186E-04 / DENSITY 1.99000E+00 SHOULD BE 1.13000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 9.50000E+02. STRENGTH FUNCTION IS 1.92186E-04 DENSITY 1.99000E+00 SHOULD BE 1.13000E+00

74. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 2.01392E-04 / DENSITY 1.99000E+00 SHOULD BE 1.13000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.00000E+03. STRENGTH FUNCTION IS 2.01392E-04

DENSITY 1.99000E+00 SHOULD BE 1.13000E+00

75. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.50000E+03. STRENGTH FUNCTION IS 2.19804E-04 / DENSITY 1.99000E+00 SHOULD BE 1.13000E+00 (0): URR dens. (a)

SECTION 151

ENERGY = 1.50000E+03. STRENGTH FUNCTION IS 2.19804E-04 DENSITY 1.99000E+00 SHOULD BE 1.13000E+00

76. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+03. STRENGTH FUNCTION IS 2.19613E-04 / DENSITY 1.99000E+00 SHOULD BE 1.13000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 2.00000E+03. STRENGTH FUNCTION IS 2.19613E-04

DENSITY 1.99000E+00 SHOULD BE 1.13000E+00

77. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.50000E+03. STRENGTH FUNCTION IS 2.16905E-04 / DENSITY 1.99000E+00 SHOULD BE 1.13000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 2.50000E+03. STRENGTH FUNCTION IS 2.16905E-04

DENSITY 1.99000E+00 SHOULD BE 1.13000E+00

78. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 3.50000E+03. STRENGTH FUNCTION IS 2.19970E-04 / DENSITY 1.99000E+00 SHOULD BE 1.13000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 3.50000E+03. STRENGTH FUNCTION IS 2.19970E-04

DENSITY 1.99000E+00 SHOULD BE 1.13000E+00

79. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 5.50000E+03. STRENGTH FUNCTION IS 2.18563E-04 / DENSITY 1.99000E+00 SHOULD BE 1.13000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 5.50000E+03. STRENGTH FUNCTION IS 2.18563E-04

DENSITY 1.99000E+00 SHOULD BE 1.13000E+00

80. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 2.09070E-04 / DENSITY 1.99000E+00 SHOULD BE 1.13000E+00 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 2.09070E-04

DENSITY 1.99000E+00 SHOULD BE 1.13000E+00

81. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 2.07653E-04 / DENSITY 1.99000E+00 SHOULD BE 1.13000E+00 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 2.07653E-04
DENSITY 1.99000E+00 SHOULD BE 1.13000E+00
```

- recent Warnings:
  - 1. L Dependent Scattering Radius in the Evaluation is Zero.  $\theta$ : AP(E) is  $\theta$

- fudge-4.0 Warnings:
  - 1. Missing a channel with a particular angular momenta combination resonances / resolved / Reich\_Moore (Error # 0): missingResonanceChannel

```
WARNING: Missing a channel with angular momenta combination L=1, J=2.0 and S=2.0 for "competitive" WARNING: Missing a channel with angular momenta combination L=1, J=2.0 and S=3.0 for "competitive" WARNING: Missing a channel with angular momenta combination L=1, J=3.0 and S=2.0 for "competitive" WARNING: Missing a channel with angular momenta combination L=1, J=3.0 and S=3.0 for "competitive" ... plus 1 more instances of this message
```

2. Cross section does not match sum of linked reaction cross sections crossSectionSum label 1: nonelastic (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.21%

3. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes. Section 2 ((z,n)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

4. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes. Section 3 (n[multiplicity:'2'] + Pu240): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

5. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 4 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission]): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (3.854505e-09) is too small

- fudge-4.0 Errors:
  - 1. Calculated and tabulated Q values disagree.

    reaction label 17: n[multiplicity:'2'] + Pu240 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -12811980.59585571 eV vs -5248041. eV!

2. Calculated and tabulated Q values disagree. reaction label 18: n[multiplicity:'3'] + Pu239 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -19346180.08279419 eV vs -1.1701e7 eV!

3. Calculated and tabulated Q values disagree. reaction label 20: Pu242 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -1260741.373168945 eV vs 6300801. eV!

4. Energy range of data set does not match cross section range production label 21: /reactionSuite/reactions/production[@label='21'] / Product: gamma / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (99990.01 -> 20000000.0) vs (1e-05 -> 20000000.0)

5. Energy range of data set does not match cross section range production label 21: /reactionSuite/reactions/production[@label='21'] / Product: gamma / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (99990.01 -> 20000000.0) vs (1e-05 -> 20000000.0)

- njoy2012 Warnings:
  - 1. There is a problem with the fission energy release. heatr...prompt kerma (0): HEATR/nheat (3)

```
---message from nheat---changed q from 2.019801E+08 to 1.890001E+08 for mt 18
```

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

group-averaged cross-sections (0): GROUPR/conver (0)

```
---message from conver---cannot do complete particle production for mt= 16 only mf4/mf5 provided
```

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

groupr...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)

```
---message from conver---cannot do complete particle production for mt= 17 only mf4/mf5 provided
```

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

groupr...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 91 only mf4/mf5 provided

## • njoy2012 Errors:

1. NJOY2012 I/O bug in util.f90 errorr...produce cross section covariances (0): NJOY Bug

---message from stderr
At line 196 of file util.f90 (unit = 18, file = '../../tmp/n-094\_Pu\_241/njoy2012/gfortrantmpsIc2zf')